

# CEC Workshop on Transmission Line Constraints That May Effect Siting of New Power Plants

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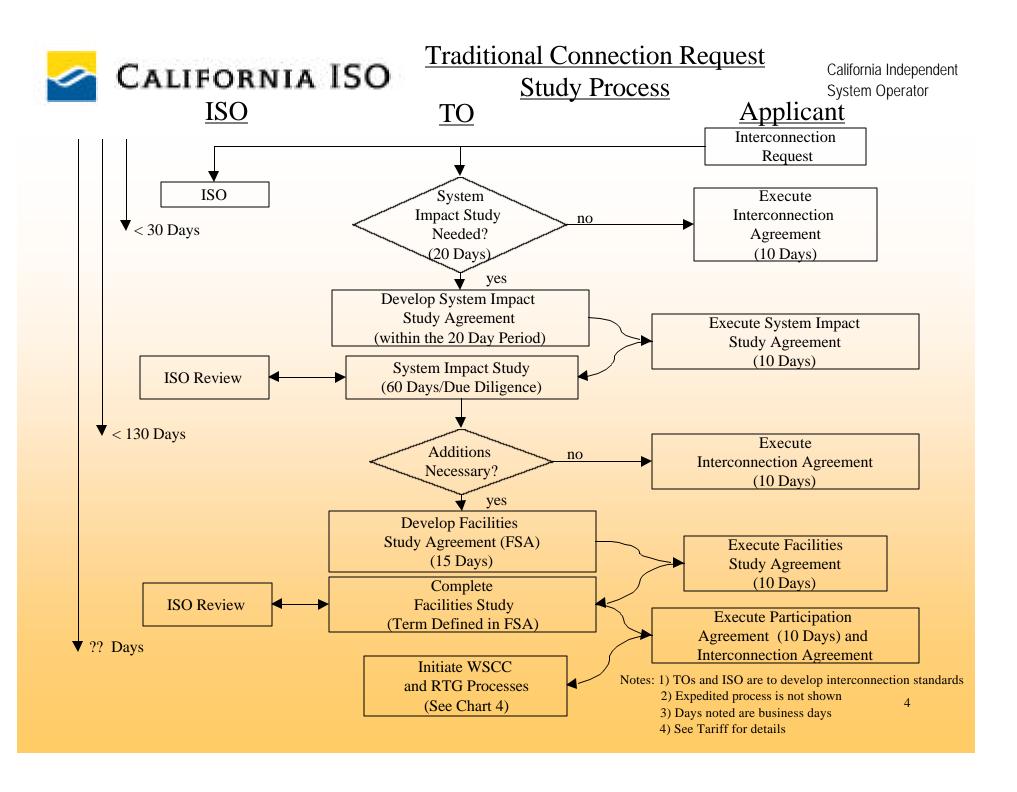
#### **Summary**

- Connection Study Requirements
- CA ISO Review of Studies
- Queues
- Generation Projects Being Tracked by ISO
- Transmission Projects



#### **Connection Study Requirements**

- Process Governed by ISO Tariff, TO Tariff, and Transmission Control Agreements
- Four-step process
  - (1) Interconnection Request
  - (2) System Impact Study
  - (3) Facilities Study
  - (4) WSCC and RTG Processes Initiated
- PTO Conducts Studies ISO Comments on Study





## **Types of ISO Connection Approvals**

- Preliminary
- Conditional
- Final



### In Response to Energy Crisis

- ISO Reviews Shortened to a Few Days
- More Engineering Judgement Fewer Studies
- ISO Commitment to Not Delay Projects
- ISO is Proponent for Generation



#### QUEUES

- Presently Managed by PTOs
- Commonly an Issue Among Generation Developers
- Will become an ISO Responsibility
- Queuing Policy to be filed with FERC Soon



### **Projects Being Tracked by ISO**

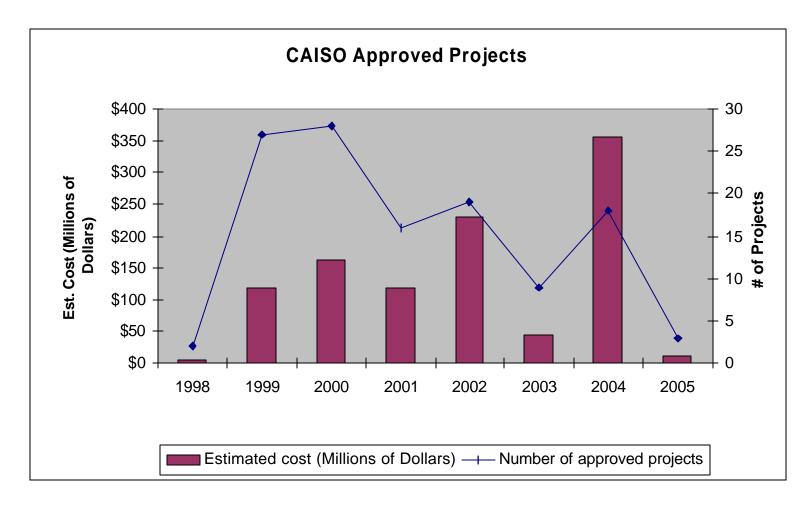
- 115 Generation Projects
- Sizes Range from less than 10 MW to more than 1200 MW
- Nearly All Gas
- Total being followed by ISO is >39,000
   MW (Including some in Arizona)



#### Distribution of New Generation

- Distribution Among PTOs
  - ->13,000 MW on PG&E System
  - ->14,000 MW on SCE System
  - ->4,000 MW on SDG&E System
- Distribution Relative to Path 15
  - -> 11,000 MW North of Path 15
  - -> 27,000 MW South of Path 15 (including some in Arizona)

California ISO Approved Transmission Projects									
	1998	1999	2000	2001	2002	2003	2004	2005	Total
Number of approved projects	2	27	28	16	19	9	18	3	122
(Millions of Dollars)	\$6					\$45		\$12	





#### **Congestion Impacts on Generators**

- Congestion Is Intended to Provide a Locational Signal
- ISO Congestion Management Needs to be Improved
- Generators not Required to Mitigate Congestion per FERC Policy
- Generators or ISO Can Build to Mitigate Congestion